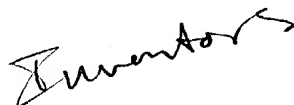


L16 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1999:659366 HCAPLUS
 DOCUMENT NUMBER: 131:267946
 TITLE: Amidine-containing lipopolyamines, their synthesis and use in transfection
 INVENTOR(S): Byk, Gerardo; Frederic, Marc; Hofland, Hans; Schermann, Daniel
 PATENT ASSIGNEE(S): Rhone-Poulenc Rorer S.A., Fr.
 SOURCE: PCT Int. Appl., 83 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:



PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9951581	A1	19991014	WO 1999-FR740	19990330 <--
W: AE, AL, AT, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GD, GE, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2777017	A1	19991008	FR 1998-4121	19980402
FR 2777017	B1	20020823		
CA 2324931	AA	19991014	CA 1999-2324931	19990330 <--
BR 9909350	A	20001212	BR 1999-9350	19990330 <--
EP 1068188	A1	20010117	EP 1999-910463	19990330 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, FI				
JP 2002513543	T2	20020514	JP 2000-542302	19990330 <--
AU 759301	B2	20030410	AU 2000-34061	20000512
NO 2000004780	A	20001101	NO 2000-4780	20000925 <--
PRIORITY APPLN. INFO.:				
			FR 1998-4121	A 19980402
			US 1998-85845P	P 19980518
			WO 1999-FR740	W 19990330 <--

OTHER SOURCE(S): MARPAT 131:267946

AB The invention concerns novel compds. useful as agents for transferring nucleic acids into cells. Said novel compds. are more particularly related to the lipopolyamine family, and comprise at least a cyclic amidine function. They are useful for transfecting nucleic acids of interest into different cell types, in vitro as well as in vivo or ex vivo

ICM C07D233-48
 ICS C07D239-14; C12N015-87; A61K031-47; C07J041-00; C07K005-06

CC 3-1 (Biochemical Genetics)
 Section cross-reference(s): 23

ST transfection amidine contg lipopolyamine

IT Gene therapy

Transformation, genetic

(amidine-contg. lipopolyamines, their synthesis and use in transfection)

IT 245738-75-4P 245738-76-5P 245738-77-6P
 245738-78-7P 245738-79-8P 245738-80-1P

RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (amidine-contg. lipopolyamines, their synthesis and use in transfection)

IT 107-13-1, 2-Propenenitrile, reactions 2055-46-1, 3,4,5,6-Tetrahydro-2-pyrimidinethiol 2440-60-0, O-Methylisourea 3088-42-4 4530-20-5, Boc-Glycine 5464-11-9 17361-44-3, Ditetradecylamine 181821-44-3 191156-90-8

RL: RCT (Reactant); RACT (Reactant or reagent) (amidine-contg. lipopolyamines, their synthesis and use in transfection)

IT 20112-81-6P 175903-37-4P 204526-12-5P 204526-13-6P 204526-14-7P 216778-32-4P 245738-81-2P 245738-82-3P 245738-83-4P 245738-84-5P 245738-85-6P 245738-86-7P 245738-87-8P 245738-88-9P 245738-89-0P

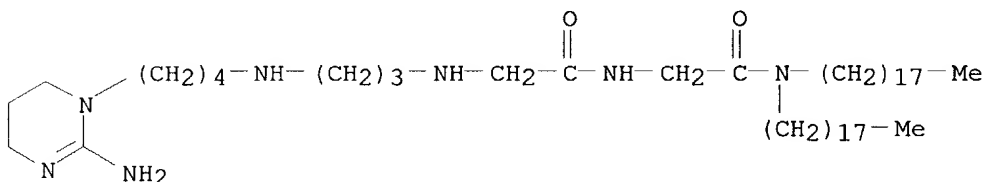
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (amidine-contg. lipopolyamines, their synthesis and use in transfection)

IT **245738-75-4P 245738-76-5P 245738-77-6P 245738-78-7P 245738-79-8P 245738-80-1P**

RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (amidine-contg. lipopolyamines, their synthesis and use in transfection)

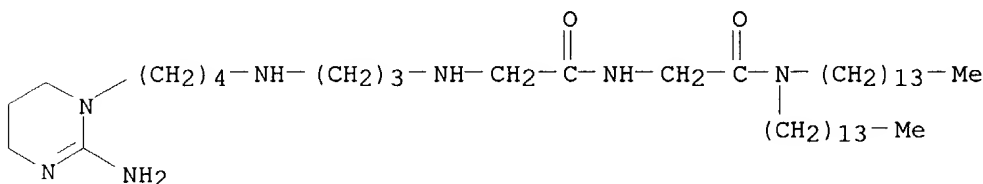
RN 245738-75-4 HCAPLUS

CN Glycinamide, N-[3-[[4-(2-amino-5,6-dihydro-1(4H)-pyrimidinyl)butyl]amino]propyl]glycyl-N,N-dioctadecyl- (9CI) (CA INDEX NAME)



RN 245738-76-5 HCAPLUS

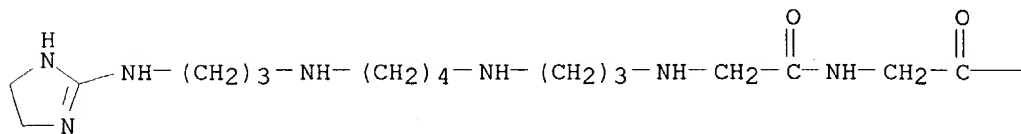
CN Glycinamide, N-[3-[[4-(2-amino-5,6-dihydro-1(4H)-pyrimidinyl)butyl]amino]propyl]glycyl-N,N-ditetradecyl- (9CI) (CA INDEX NAME)



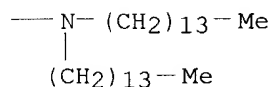
RN 245738-77-6 HCAPLUS

CN Glycinamide, N-[3-[[4-[[3-[(4,5-dihydro-1H-imidazol-2-yl)amino]propyl]amino]butyl]amino]propyl]glycyl-N-tetradecyl-N-tetradecyl- (9CI) (CA INDEX NAME)

PAGE 1-A

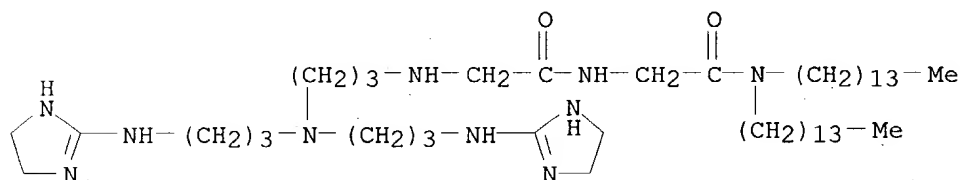


PAGE 1-B



RN 245738-78-7 HCAPLUS

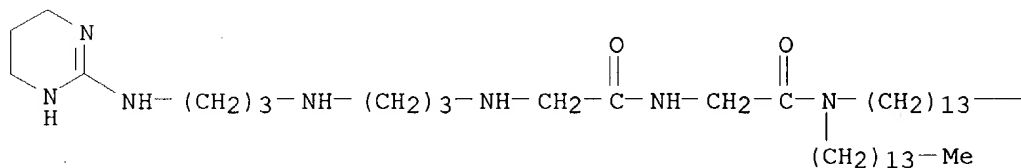
CN Glycinamide, N-[3-[bis[3-[(4,5-dihydro-1H-imidazol-2-yl)amino]propyl]amino]propyl]glycyl-N,N-ditetradecyl- (9CI) (CA INDEX NAME)



RN 245738-79-8 HCAPLUS

CN Glycinamide, N-[3-[[3-[(1,4,5,6-tetrahydro-2-pyrimidinyl)amino]propyl]amino]propyl]glycyl-N-tetradecyl-N-tetradecyl- (9CI) (CA INDEX NAME)

PAGE 1-A



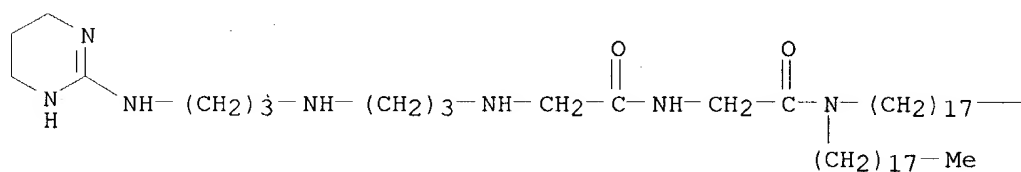
PAGE 1-B

— Me

RN 245738-80-1 HCAPLUS

CN Glycinamide, N-[3-[[3-[(1,4,5,6-tetrahydro-2-pyrimidinyl)amino]propyl]amin
o]propyl]glycyl-N-octadecyl-N-octadecyl- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

— Me

REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT